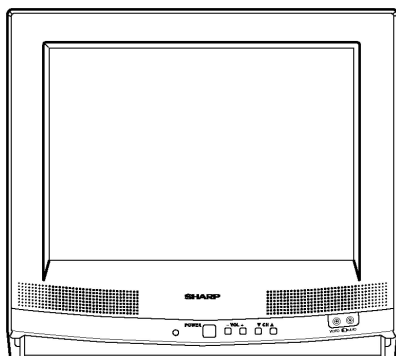


SHARP 14LK20A SERVICE MANUAL



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COLOR TELEVISION

Chassis No. SN-70A

MODEL

14LK20A

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

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ELECTRICAL SPECIFICATIONS

POWER INPUT	110-220 V AC 50/60 Hz	SPEAKER	
POWER RATING	63 W	SIZE	9 x 5 cm
PICTURE SIZE	580cm ² (89.8sq inch)	VOICE COIL IMPEDANCE	16 ohm at 400 Hz
CONVERGENCE	Magnetic	ANTENNA INPUT IMPEDANCE	
SWEEP DEFLECTION	Magnetic	VHF/UHF	75 ohm Unbalanced
FOCUS	Hi-Bi-Potential Electrostatic	TUNING RANGES	
INTERMEDIATE FREQUENCIES		VHF-Channels	2 thru 13
Picture IF Carrier Frequency	45.75 MHz	UHF-Channels	14 thru 69
Sound IF Carrier Frequency	41.25 MHz	CATV Channels	1 thru 125
Color Sub-Carrier Frequency	42.17 MHz		
	(Nominal)		
AUDIO POWER			
OUTPUT RATING	1.3W (at 10% distortion)		

Specifications are subject to change without prior notice.

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IMPORTANT SERVICE SAFETY PRECAUTION

■ Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.
To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.
It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter.
The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value –no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.
Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

IMPORTANT SERVICE SAFETY PRECAUTION

(Continued)

BEFORE RETURNING THE RECEIVER

(Fire & Shock Hazard)

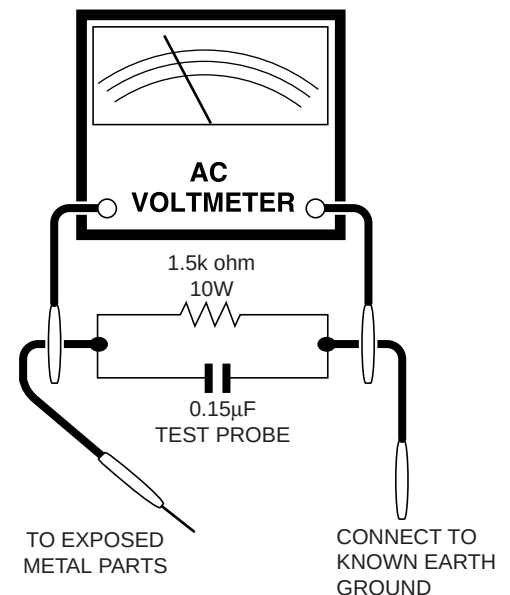
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators and etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
 - Plug the AC cord directly into a 110~120 volt AC outlet, (Do not use an isolation transformer for this test).
 - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
 - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon and etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC ine cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



SAFETY NOTICE

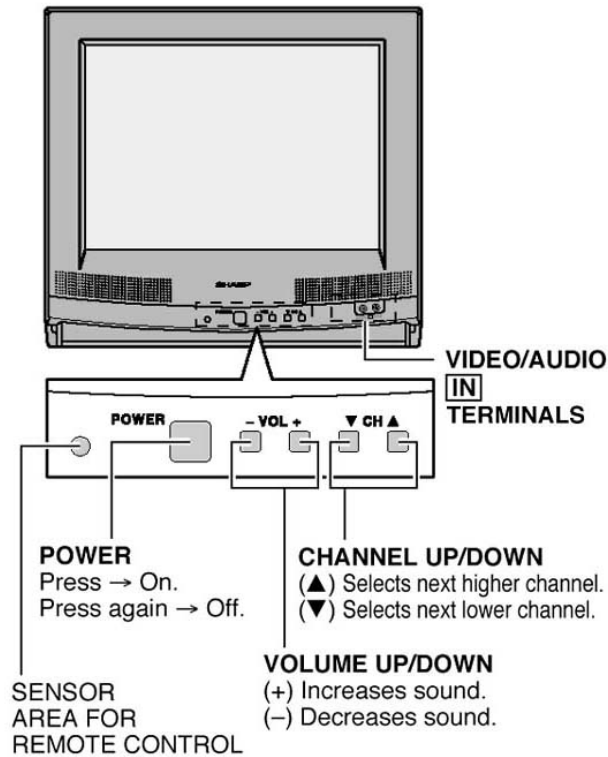
Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

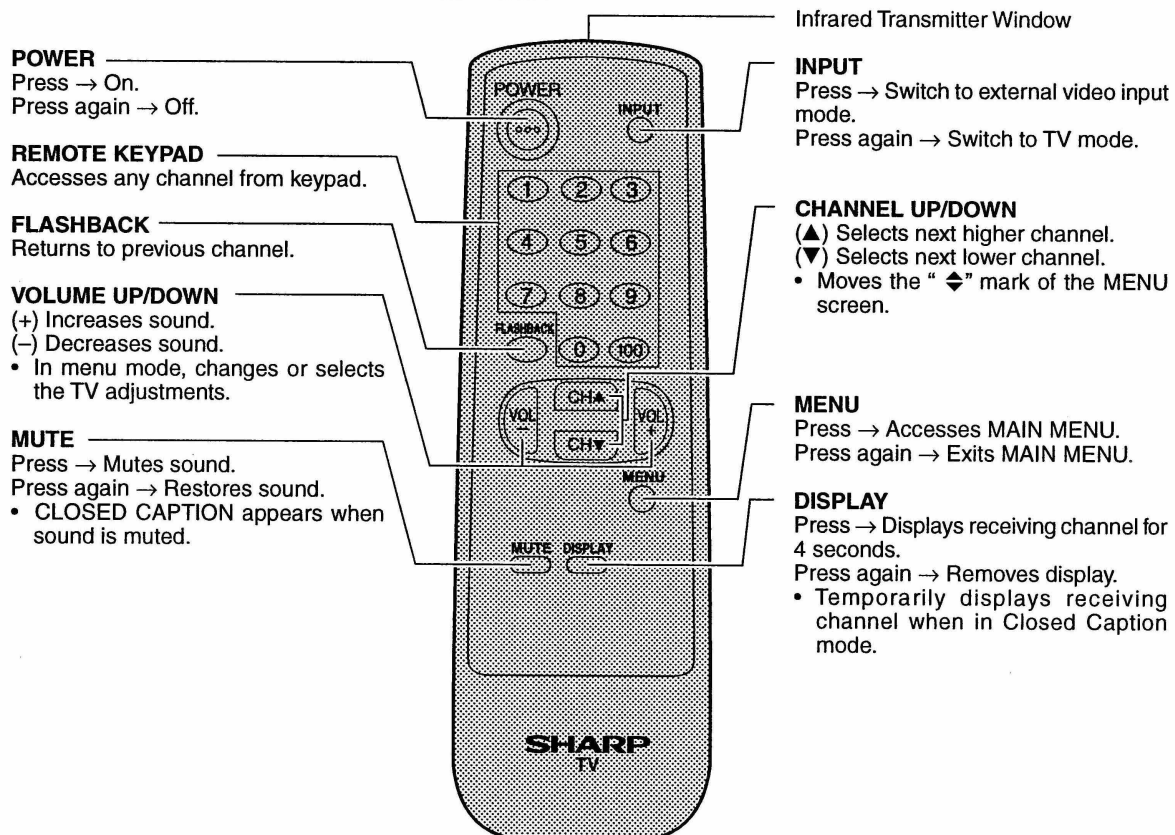
For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

LOCATION OF USER'S CONTROL

Front Panel



Basic Remote Control Functions



INSTALLATION AND SERVICE INSTRUCTIONS

- Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.
 (2) Before performing adjustments, the TV set must be on at least 15 minutes.

CIRCUIT PROTECTION

The receiver is protected by a 3.15A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

+115V DC REGULATOR ADJUSTMENT

The + 115V DC Adj. control (R721) is adjusted at the factory. However, should readjustment be required proceed as follows.

1. Actuate the receiver with 220V AC input voltage.
2. Receive a local channel.
3. Connect positive lead of digital voltmeter to R603 TP751 (positive side) on PWB-A; negative lead to chassis ground.
4. Adjust R721 to obtain a +115V DC reading.

CAUTION: The reading should be within $+115 \pm 1V$ DC to ensure normal function and circuitry reliability.

X-RADIATION PROTECTOR CIRCUIT TEST

After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:

1. Apply 220V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP653 and make sure that the voltmeter reads $20.6 \pm 1.5 V$.
5. Apply external 26.8V DC at TP653 by using an external DC supply, TV must be shut off.
6. To reset the protector, unplug the AC cord and make a short circuit between TP651 and TP652. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

HIGH VOLTAGE CHECK

High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 110~220V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "S19" and Bus data "01" (Y-mute on).
4. The voltage should be approximately, 24.0kV (at zero beam).

If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

Note: There are still a few analog adjustments in this series such as focus and master screen voltage.

Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "S01" to "M05". Select the item you wish to adjust.

3. Data number selection

Press the Vol-up or down button to adjust the data number.

To enter the service mode and exit service mode.

While pressing the Vol-up and Ch-up buttons at the sametime, plug the AC cord into a wall socket.

Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

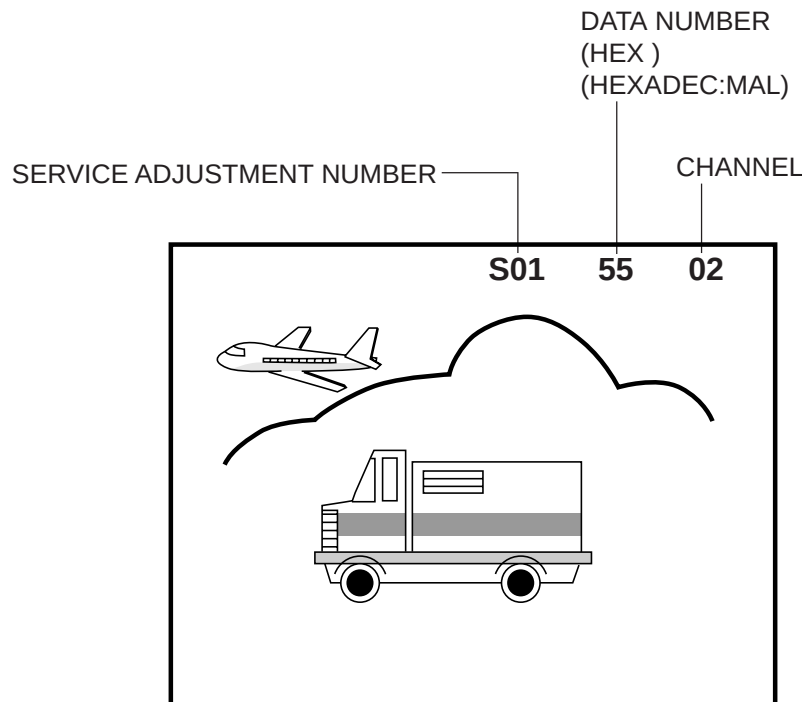


Figure A.

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
S01	PICTURE	55	00-7F	Must be set to "24" Must be set to between "0" and "03"
S02	TINT	46	00-7F	
S03	COLOR	32	00-7F	
S04	BRIGHTNESS	40	00-7F	
S05	SHARPNESS	28	00-3F	
S06	VERTICAL PHASE	00	00-07	
S07	HORIZONTAL PHASE	12	00-1F	
S08	RF-AGC	2A	00-3F	
S09	VERTICAL AMP	20	00-3F	
S10	VCO	2C	00-7F	
S11	R CUT-OFF	00	00-FF	Must be set to "00" Must be set to "20"
S12	G CUT -OFF	00	00-FF	
S13	B CUT-OFF	00	00-FF	
S14	G GAIN	7F	00-FF	
S15	B GAIN	7F	00-FF	
S16	TRAP(3.58MHz)	00	00 or 01	
S17	BALANCE	20	00-3F	
S18	C.C.POSITION	18	00-7F	
S19	Y-MUTE	00	00,01,03	
OP	OPTION	80	00-FF	
M01	MTS LEVEL	0A	00-0F	00=NORMAL, 01=No Y, 03=No VERTICAL Must be set to "08"
M02	STEREO-VCO	20	00-3F	
M03	FILTER	1C	00-3F	
M04	LOW SEPARATION	20	00-3F	
M05	HIGH SEPARATION	1B	00-3F	

Table - A

Holding down both the Ch-up/down buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2101.
IC201	X		The adjustment is needed to compensate for characteristics of parts including IC201.
IC2101	X		Holding down both the Ch-up/down buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101.
CRT	X		Adjust items related to picture tube only.

Table - B

■ SERVICE ADJUSTMENT

VCO Adjustment

1. Connect a digital voltmeter between pin (44) of IC201 and ground.
2. Select a good local channel.
3. Enter the service mode and select the service adjustment "S10".
4. Adjust the data so that digital voltmeter reads 2.2V.
5. Adjustment is completed, remove the voltmeter, return to "normal" mode.

RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S08".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

Note 1 : You will have to come out of the service mode to select another channel.

Note 2 : Setting the data to "00" will produce a black raster.

Screen Adjustment

1. Connect a digital voltmeter between TP852 and TP853 on the CRT Unit.

Note: These test points may not be provided.

Then connect the voltmeter to both ends of R852 located near Q852 on the foil side.

2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "S03" and set the data value to "00" to set the color level to minimum (Record original data code under adjustment "S03" before changing). You may skip this step, if you selected a B/W picture or monoscope pattern.
4. Select the service adjustment "S19" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
5. Select the service adjustment "S04" and adjust data value to obtain 0.17 volts on the digital voltmeter.
6. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
7. Adjust the service adjustments "S11" red, "S12" green and "S13" blue to obtain a good grey scale with normal whites at low brightness level.
8. Select the service adjustment "S19" and reset data to "00". Select the service adjustment "S03" and reset data to obtain normal color level.
9. Remove digital voltmeter, and reset the master screen control to obtain normal brightness range.

White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S03" and set to "00" (minimum color). "S03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "S14" and "S15" until a good grey scale with normal whites is obtained.
4. Select the service adjustment "S03" and adjust data to obtain normal color level.

Sub-Picture Adjustment

1. Receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select the service adjustment "S01".
4. Adjust the data value to achieve normal contrast range.

Sub-Tint Adjustment

1. Receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select the service adjustment "S02".
4. Adjust "S02" data value to obtain normal flesh tones.

Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
3. Enter the service mode and select the service adjustment "S03".
4. Adjust "S03" data value to obtain normal color level.

Sub-Brightness Adjustment

1. Receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select the service adjustment "S04".
4. Adjust "S04" data value to obtain normal brightness level.

Vertical-Size Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S09".
3. While observing the top and bottom of the screen, adjust "S09" data value to proper vertical size.

Vertical Phase Adjustment

1. Enter the service mode and select the service adjustment "S06".
2. Adjust data value to "00"~"03" so that picture is approximate center.

Note: This must be set "00"~"03" when adjust another data retrace line will be appear.

Horizontal Position Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S07".
3. Adjust "S07" data value so that picture is centered.

Caption Position Adjustment (Horizontal)

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S18".
3. A black text box appears on the screen. (see **Figure B.** below)
4. Adjust "S18" data value so that text box is positioned in the center of the screen.

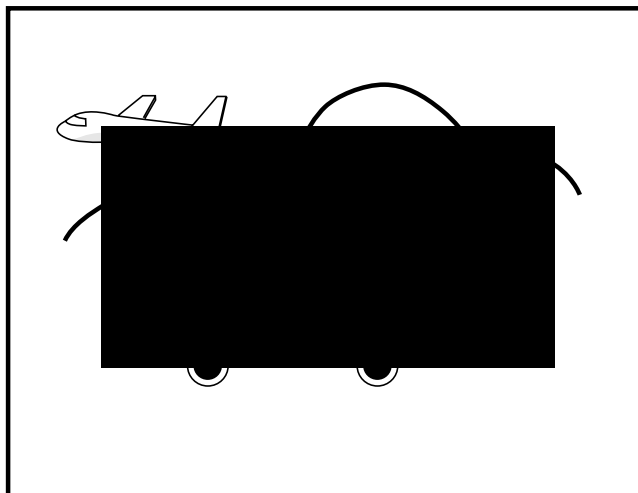


Figure B.

3.58MHz Trap Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S16".
3. This is a two position adjustment, "00" is ON, "01" is OFF.
4. Adjust data value to "00" for normal viewing.

Sharpness and Audio Balance Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustments "S05" for sharpness and "S17" for audio balance.

● Sharpness Adjustment

3. Adjust data value to "24" (center of data range) for sharpness adjustment.

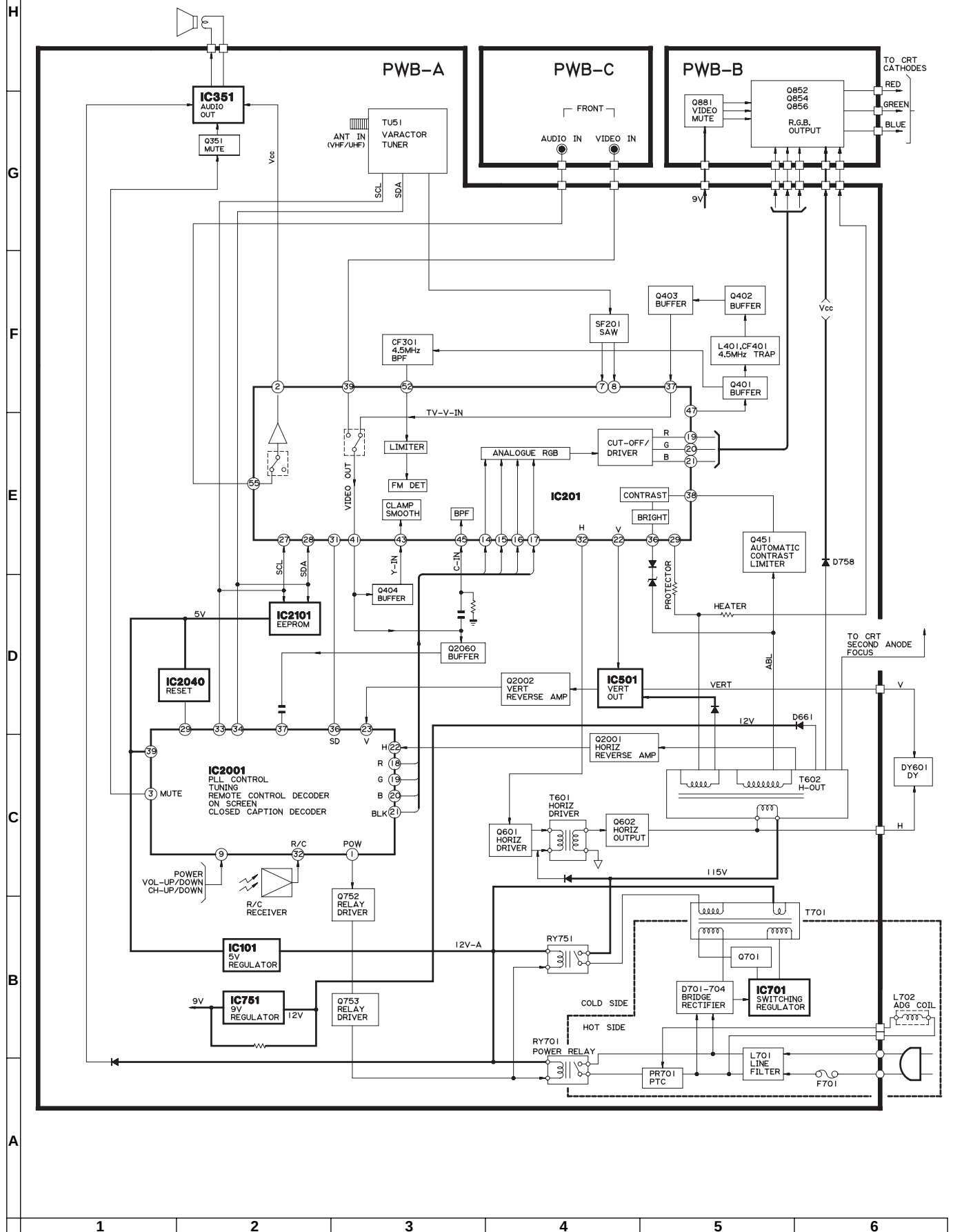
● Audio Balance Adjustment

4. Adjust data value to "20" (center of data range) for Audio balance adjustment.

	1	2	3	4	5	6
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BLOCK DIAGRAM



DESCRIPTION OF SCHEMATIC DIAGRAM

NOTES:

1. The unit of resistance "ohm" is omitted.
($K=k\Omega=1000\Omega$, $M=M\Omega$)
2. All resistors are 1/16 watt, unless otherwise noted.
3. All capacitors are μF , unless otherwise noted.
($P=pF=\mu\mu F$)
4. (G) indicates $\pm 2\%$ tolerance may be used.
5. $\perp$ indicates line isolated ground.
6. $\downarrow$ indicates hot ground.

VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 μ V B & W or Color signal.

WAVEFORM MEASUREMENT CONDITIONS:

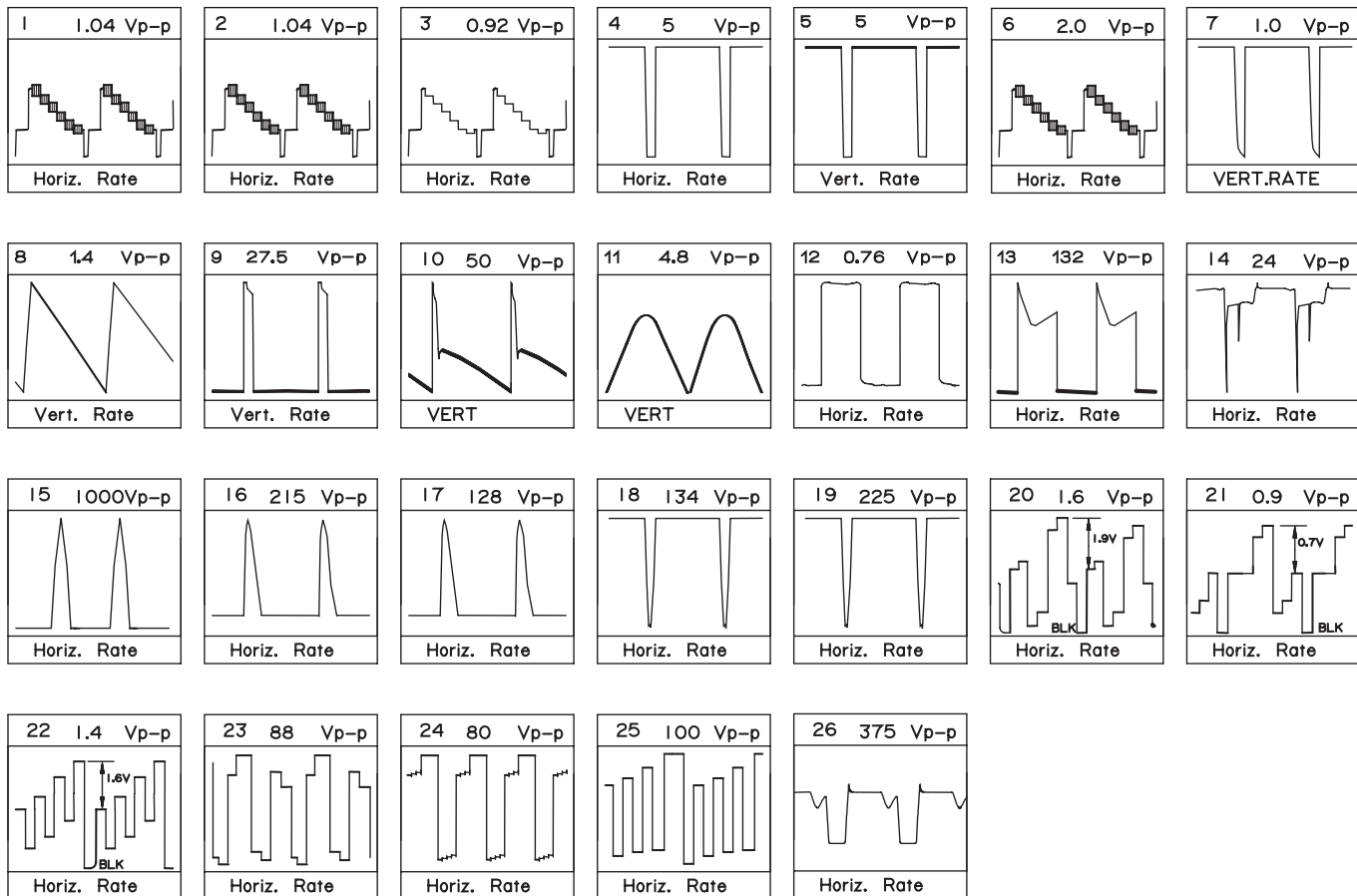
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

 AND SHADED () COMPONENTS = SAFETY RELATED PARTS.

 MARK= X-RAY RELATED PARTS.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

WAVEFORMS







H

G

F

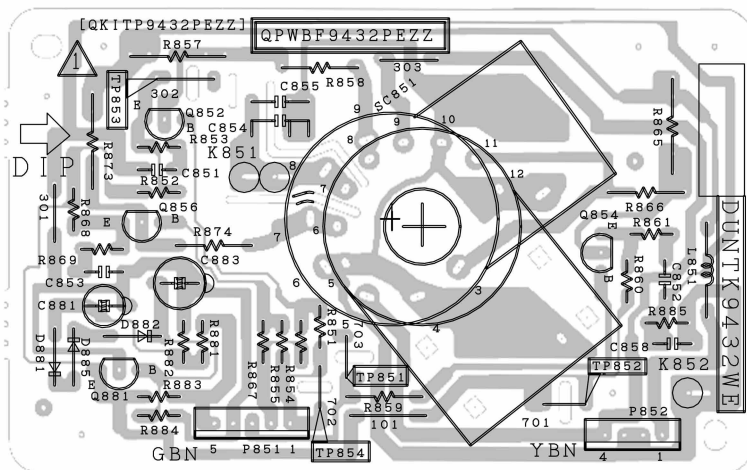
E

D

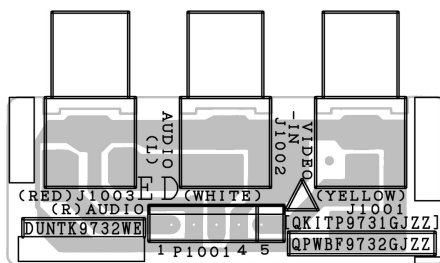
C

B

A



PWB-B: CRT Unit (Wiring Side)



PWB-C: FRONT AV Unit (Wiring Side)

PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by ▲ and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

★ MARK : SPARE PARTS-DELIVERY SECTION

▲ MARK : X- RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

PICTURE TUBE

▲▲ V101	VB37GDA86X/1E	R	Picture Tube	CB
	or			
	VB370BVBK1S-S			
	or			
	VB34JFQ90X/*S			
	or			
	VB34KPU02X/*S			
	or			
	VB34JLL40X/*S			
▲ L702	RCiLG0037PEZZ	R	Degaussing Coil	AM
▲▲ DY601	RCiLH0149PEZZ	R	Deflection Yoke	BA
	PMAGF3041CEZZ	J	Degaussing Coil	AG
			-Purity and Static	
			Convergence	
	PSPAG0004PEZZ	R	Wedge(Gum), Yoke	AB
	QEARC1404PEZZ	R	Grounding Strap	AD
	MSPRT0001PEFJ	R	Spring for CRT	AC

	CRT	DY
COMBI-NATION	CPJ370BVBK1S A34JFQ90X	HO140PE HO150PE HO160PE HO140PENI
	A34JLL40X	HO163PE
	37GDA86X	HO149PE HO164PE
	A34KPU02XX	HO149PENI HO164PENI

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A DUNTK9731WEV0	—	MAIN Unit	—
PWB-B DUNTK9432WEV2	—	CRT Unit	—
PWB-C DUNTK9432WEV0	—	FRONT AV Unit	—

Ref. No.	Part No.	★	Description	Code
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PWB-A: DUNTK9731WEV0 MAIN UNIT

TUNER

NOTE : THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

▲ TU51	VTU115B8025AM	M	Tuner	BA
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INTEGRATED CIRCUITS

IC101	VHiKA78S05P-1	J	KA78S05P	AD
▲▲ IC201	RH-iX2933CEZZ	J	TA1268N	AX
IC351	VHiTDA7056A-1	J	TDA7056A	AP
▲ IC501	VHiTA8403K/-1	J	TA8403K	AL
▲ IC701	RH-iX1779CEZZ	J	TEA2261	AR
▲ IC751	VHiKA7809Pi-1	R	KA7809PI	AE
	or			
	VHiTA7809S/-1			
IC2001	RH-iX2946CEZZ	J	TMPA8701CKF108	AX
IC2040	VHiPST994C/-1	J	PST994C	AD
IC2101	VHiM24C01B/-1	J	M24C01B	AF
	or			
	RH-iX2447CEN1			

TRANSISTORS

You can substitute "VS2SC2462-C-1" for "VS2SD601AR/-1".

Q201	VS2SC2735//1E	J	2SC2735	AC
Q351	VS2SC2462-C-1	J	2SC2462	AB
Q401	VS2SD601AR/-1	J	2SD601	AC
Q402	VS2SB709AR/-1	J	2SB709	AC
Q403	VS2SD601AR/-1	J	2SD601	AC
Q404	VS2SB709AR/-1	J	2SB709	AC
Q451	VS2SB709AR/-1	J	2SB709	AC
Q601	VS2SC2482//1	J	2SC2482	AD
▲ Q602	VS2SD2586//1E	J	2SD2586	AM
▲ Q701	VS2SD1884//1	J	2SD1884	AN
Q752	VS2SC1815YW-1	J	2SC1815	AC
Q753	VS2SC1815YW-1	J	2SC1815	AC
Q2001	VS2SD601AR/-1	J	2SD601	AC
Q2002	VS2SD601AR/-1	J	2SD601	AC
Q2060	VS2SC2462-C-1	J	2SC2462	AB

DIODES

D51	RH-EX0611GEZZ	J	Zener Diode	AA
D52	RH-EX0676GEZZ	J	Zener Diode	AA
D103	VHD1SS119//1	J	Diode	AB
D401	VHD1SS119//1	J	Diode	AB
D402	RH-EX0092CEZZ	J	Zener Diode	AB
D454	RH-EX0103CEZZ	J	Zener Diode	AB
D455	VHD1SS119//1	J	Diode	AB
D501	RH-DX0441CEZZ	J	Diode	AC
	or			
	RH-DX0110CEZZ			
▲ D502	RH-DX0131CEZZ	J	Diode	AC
D603	RH-DX0441CEZZ	J	Diode	AC
	or			
	RH-DX0110CEZZ			
D604	VHD1SS119//1	J	Diode	AB
D605	VHD1SS119//1	J	Diode	AB
D631	RH-EX0630GEZZ	J	Zener Diode	AA
D641	RH-EX0631GEZZ	J	Zener Diode	AA
▲▲ D651	RH-DX0131CEZZ	J	Diode	AC
▲▲ D652	VHD1SS119//1	J	Diode	AB
▲▲ D653	RH-EX0091CEZZ	J	Zener Diode	AB
▲ D661	RH-DX0444CEZZ	J	Diode	AH
▲ D701	RH-DX0055TAZZ	J	Diode	AD
▲ D702	RH-DX0055TAZZ	J	Diode	AD
▲ D703	RH-DX0055TAZZ	J	Diode	AD
▲ D704	RH-DX0055TAZZ	J	Diode	AD
D705	RH-DX0302CEZZ	J	Diode	AC
D706	RH-DX0130CEZZ	J	Diode	AE
D707	RH-DX0130CEZZ	J	Diode	AE
D708	RH-EX0647GEZZ	J	Zener Diode	AA
D709	RH-DX0027CEZZ	J	Diode	AE

Ref. No.	Part No.	★	Description	Code
PWB-A: DUNTK9731WEV0				
MAIN UNIT (Continued)				
D710	RH-EX0914CEZZ	J	Zener Diode	AD
D711	RH-DX0130CEZZ	J	Diode	AE
D712	VHD1SS119//1	J	Diode	AB
D751	RH-DX0388CEZZ	J	Diode	AE
D752	RH-DX0224CEZZ	J	Diode	AB
D754	VHD1SS119//1	J	Diode	AB
D755	VHD1SS119//1	J	Diode	AB
D758	RH-DX0131CEZZ	J	Diode	AC
D2001	VHD1SS119//1	J	Diode	AB
△ VA701	RH-VX0048CEZZ	J	Varistor	AE

PACKAGED CIRCUITS

△ PR701	RMPTP0062CEZZ	J	Packaged Circuit	AH
X801	RCRSB0001PEZZ	R	Crystal	AL
	or			
	RCRSB0205CEZZ			

FILTERS

CF301	RFiLC0403CEZZ	J	Ceramic Filter	AE
	or			
	RFiLC0029TAZZ			
CF401	RFiLC0013CEZZ	J	Ceramic Filter	AE
	or			
	RFiLC0004PEZZ			
CF631	RFiLA0034CEZZ	J	Ceramic Filter	AD
CF2040	RFiLC0121GEZZ	J	Ceramic Filter	AD
SF201	RFiLC0405CEZZ	J	S.A.W. Filter	AH

COILS

L201	VP-XF1R2K0000	J	Peaking 1.2μH	AB
L202	RCiLi0612CEZZ	J	VCO Coil	AE
	or			
	RCiLi0588CEZZ			
L301	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L302	RCiLi0613CEZZ	J	IF Coil	AE
	or			
	RCiLi0605CEZZ			
L401	VP-XF6R8K0000	J	Peaking 6.8μH	AB
L402	VP-XF3R3K0000	J	Peaking 3.3μH	AB
L403	VP-XF100K0000	J	Peaking 10μH	AB
L404	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L406	VP-XF680K0000	J	Peaking 68μH	AB
L409	VP-XF100K0000	J	Peaking 10μH	AB
△ L701	RCiLF0012PEZZ	R	Coil	AN
L703	VP-CF330K0000	J	Peaking 33μH	AB
L704	VP-CF3R3K0000	J	Peaking 3.3μH	AB
L751	RCiLP0225CEZZ	J	Coil	AF
L2040	RCiLB0159CEZZ	J	Oscillation Coil	AE

TRANSFORMERS

△ T601	RTRNZ0073CEZZ	J	Horz. Driver	AF
▲△ T602	RTRNF0141PEZZ	R	F.B.T	BC
△ T701	RTRNZ0119PEZZ	R	Transformer	AS

CONTROL

▲△ R721	RVR-M4324CEZZ	J	220(B) 115V Adj.	AC
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CAPACITORS

[EL.... Electrolytic, M-Poly.... Metalized Polypro Film]

C51	VCEA0A1CW476M	J	47 16V EL.	AB
C52	VCSATA1CE226K	J	22 16V Tantalum	AD
C53	VCEA0A1HW105M	J	1.0 50V EL.	AB
C54	VCEA0A1HW225M	J	2.2 50V EL.	AB
C55	VCEAGA1CW108M	J	1000 16V EL.	AD
C102	VCEAGA1CW108M	J	1000 16V EL.	AD
C201	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C202	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C203	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C204	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C205	VCEA0A1HW474M	J	0.47 50V EL.	AB

Ref. No.	Part No.	★	Description	Code
C206	VCEA0A1CW227M	J	220 16V EL.	AC
C207	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C208	VCEA0A1HW474M	J	0.47 50V EL.	AB
C209	VCKYCY1HB222K	J	2200p 50V Ceramic	AA
C210	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C302	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C303	VCKYCY1HB472K	J	4700p 50V Ceramic	AA
C304	VCEA0A1HW225M	J	2.2 50V EL.	AB
C305	VCKYPA1HB151K	J	150p 50V Ceramic	AA
C306	VCKYPA1HF103Z	J	0.01 50V Ceramic	AA
C307	VCEA0A1CW477M	J	470 16V EL.	AC
C308	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C309	VCEA0A1CW227M	J	220 16V EL.	AC
C312	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C351	VCQYTA1HM823K	J	0.082 50V Mylar	AB
C352	VCKYCY1HB182K	J	1800p 50V Ceramic	AA
C353	VCEAGA1CW108M	J	1000 16V EL.	AD
C354	VCEA0A1CW106M	J	10 16V EL.	AB
C355	VCQYTA1HM104K	J	0.1 50V Mylar	AC
C402	VCCCCY1HH331J	J	330p 50V Ceramic	AA
C403	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C405	VCEA0A1HW335M	J	3.3 50V EL.	AB
C406	VCEA0A1HW335M	J	3.3 50V EL.	AB
C408	VCEA0A1CW106M	J	10 16V EL.	AB
C409	VCEA0A1HW105M	J	1.0 50V EL.	AB
C410	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C411	VCEAGA1CW108M	J	1000 16V EL.	AD
C413	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C414	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
C419	VCCCCY1HH330J	J	33p 50V Ceramic	AA
C420	VCCCCY1HH471J	J	470p 50V Ceramic	AA
C451	VCQYTA1HM563K	J	0.056 50V Mylar	AB
C454	VCEA0A1HW475M	J	4.7 50V EL.	AB
C502	VCEA0A1EW477M	J	470 25V EL.	AD
C504	VCKYPA2HB391K	J	390p 500V Ceramic	AA
C505	VCQYTA1HM473K	J	0.047 50V Mylar	AB
C507	VCQYTA1HM103K	J	0.01 50V Mylar	AB
C508	VCEAGA1VW107M	J	100 35V EL.	AC
C509	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C510	VCEAGA1VW477M	J	470 35V EL.	AD
C511	VCQYTA1HM473K	J	0.047 50V Mylar	AB
C513	VCEACA1HC225M	J	2.2 50V EL.	AC
C514	VCEACA1HC335J	J	3.3 50V EL.	AC
C517	VCKYPA1HB102K	J	1000p 50V Ceramic	AA
C522	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C551	VCSATA1CE225K	J	2.2 16V Tantalum	AB
C552	VCEA0A1HW225M	J	2.2 50V EL.	AB
C603	VCKYPA2HB222K	J	2200p 500V Ceramic	AA
△ C604	VCEAGH2CW227M	J	220 160V EL.	AH
▲△ C608	VCFPDP3CA682H	J	6800p 1.6kV M-Poly.	AE
C609	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C612	VCFPJP2EB474J	J	0.47 250V M-Poly.	AF
C631	VCEA0A1HW225M	J	2.2 50V EL.	AB
C632	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
C633	VCEA0A1HW105M	J	1.0 50V EL.	AB
C652	VCEA0A1HW475M	J	4.7 50V EL.	AB
C653	VCEA0A1CW106M	J	10 16V EL.	AB
C661	VCKYPA2HB152K	J	1500p 500V Ceramic	AA
C662	VCEA0A1CW477M	J	470 16V EL.	AC
△ C701	RC-FZ015SCEZZ	J	0.01 AC250V Ceramic	AE
	or			
	RC-FZ002SCEZZ			
	or			
	RC-FZ027CUMZZ			
	or			
	RC-FZ059SCEZZ			
C703	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
C704	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
C705	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
△ C706	RC-EZ0520CEZZ	J	150 400V EL.	AQ
C707	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C708	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC
C709	VCKYPA2HB102K	J	1000p 500V Ceramic	AA
C710	VCKYPA2HB472K	J	4700p 500V Ceramic	AB
C711	RC-KZ0341CEZZ	J	0.001 2kV Ceramic	AD
C712	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-A: DUNTK9731WEV0									
MAIN UNIT (Continued)									
C713	RC-KZ0029CEZZ	J	0.01 AC250V Ceramic	AC	R206	VRD-RA2EE151J	J	150 1/4W Carbon	AA
C714	VCEA0A1CW477M	J	470 16V EL.	AC	R208	VRS-CY1JF391J	J	390 1/16W M-Ox.	AA
C715	VCFYHA1HA474J	J	0.47 50V Mylar	AD	R301	VRD-RA2BE222J	J	2.2k 1/8W Carbon	AA
C716	VCEA0A1HW106M	J	10 50V EL.	AB	R302	VRS-CY1JF102J	J	1.0k 1/16W M-Ox.	AA
C717	VCFYHA1HA474J	J	0.47 50V Mylar	AD	R303	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
C718	RC-QZA471TAYJ	J	470p 50V Mylar	AB	R351	VRD-RA2BE333J	J	33k 1/8W Carbon	AA
C719	VCEA0A1CW476M	J	47 16V EL.	AB	R352	VRD-RA2BE4R7J	J	4.7 1/8W Carbon	AA
C720	VCEAGA1JW476M	J	47 63V EL.	AB	R355	VRD-RA2BE333J	J	33k 1/8W Carbon	AA
C721	VCFYHA1HA474J	J	0.47 50V Mylar	AD	R401	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
C722	VCKYPA1HB392K	J	3900p 50V Ceramic	AB	R403	VRS-CY1JF331J	J	330 1/16W M-Ox.	AA
C723	VCKYPA2HB102K	J	1000p 500V Ceramic	AA	R404	VRS-CY1JF391J	J	390 1/16W M-Ox.	AA
C724	VCEA0A1HW105M	J	1.0 50V EL.	AB	R405	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
C725	VCQYTA1HM563K	J	0.056 50V Mylar	AB	R406	VRS-CY1JF470J	J	47 1/16W M-Ox.	AA
△ C730	RC-KZ0311CEZZ	J	0.0033 AC250V Ceramic	AD	R407	VRS-CY1JF680J	J	68 1/16W M-Ox.	AA
△ C751	VCEAGH2CW107M	J	100 160V EL.	AE	R408	VRS-CY1JF102J	J	1.0k 1/16W M-Ox.	AA
C752	RC-KZ0341CEZZ	J	0.001 2kV Ceramic	AD	R409	VRS-CY1JF471J	J	470 1/16W M-Ox.	AA
C754	VCKYPA2HB102K	J	1000p 500V Ceramic	AA	R410	VRD-RA2BE563J	J	56k 1/8W Carbon	AA
C755	VCEA0A1CW477M	J	470 16V EL.	AC	R411	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
C757	RC-KZ0341CEZZ	J	0.001 2kV Ceramic	AD	R412	VRD-RA2EE561J	J	560 1/4W Carbon	AA
C758	VCEAGA2EW106M	J	10 250V EL.	AC	R413	VRD-RA2BE470J	J	47 1/8W Carbon	AA
C759	VCKYPA2HB102K	J	1000p 500V Ceramic	AA	R414	VRD-RA2BE470J	J	47 1/8W Carbon	AA
C760	VCEA0A1CW337M	J	330 16V EL.	AC	R415	VRD-RA2BE470J	J	47 1/8W Carbon	AA
C761	VCQYTA1HM104K	J	0.1 50V Mylar	AC	R416	VRS-CY1JF102J	J	1.0k 1/16W M-Ox.	AA
C801	RC-QZA223TAYK	J	0.022 50V Mylar	AB	R417	VRD-RA2BE101J	J	100 1/8W Carbon	AB
C802	VCEA0A1HW474M	J	0.47 50V EL.	AB	R418	VRS-CY1JF152J	J	1.5k 1/16W M-Ox.	AA
C803	VCCCCY1HH120J	J	12p 50V Ceramic	AA	R419	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
C804	VCEA0A1HW104M	J	0.1 50V EL.	AB	R423	VRS-CY1JF222J	J	2.2k 1/16W M-Ox.	AA
C805	VCEA0A1HW104M	J	0.1 50V EL.	AB	R426	VRS-CY1JF271J	J	270 1/16W M-Ox.	AA
C806	VCEA0A1HW104M	J	0.1 50V EL.	AB	R440	VRS-CY1JF821J	J	820 1/16W M-Ox.	AA
C807	VCCCCY1HH820J	J	82p 50V Ceramic	AA	△ R451	VRS-VV3AB103J	J	10k 1W M-Ox.	AA
C901	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	R452	VRD-RA2BE152J	J	1.5k 1/8W Carbon	AA
C905	VCEA0A1HW335M	J	3.3 50V EL.	AB	R454	VRD-RA2BE334J	J	330k 1/8W Carbon	AA
C2001	VCCCCY1HH101J	J	100p 50V Ceramic	AA	R455	VRD-RA2BE392J	J	3.9k 1/8W Carbon	AA
C2002	VCCCCY1HH101J	J	100p 50V Ceramic	AA	R456	VRS-CY1JF223J	J	22k 1/16W M-Ox.	AA
C2003	VCEA0A1CW106M	J	10 16V EL.	AB	R457	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
C2021	VCCCCY1HH101J	J	100p 50V Ceramic	AA	R458	VRD-RA2BE564J	J	560k 1/8W Carbon	AA
C2022	VCCCCY1HH101J	J	100p 50V Ceramic	AA	R459	VRD-RA2BE123J	J	12k 1/8W Carbon	AA
C2023	VCCCCY1HH101J	J	100p 50V Ceramic	AA	R504	VRD-RA2BE471J	J	470 1/8W Carbon	AA
C2024	VCCCCY1HH101J	J	100p 50V Ceramic	AA	R505	VRD-RA2BE101J	J	100 1/8W Carbon	AB
C2040	VCEA0A1AW107M	J	100 10V EL.	AB	R506	VRD-RA2BE683G	J	68k 1/8W Carbon	AA
C2041	VCEA0A1HW105M	J	1.0 50V EL.	AB	R507	VRD-RA2BE104G	J	100k 1/8W Carbon	AA
C2060	VCQYTA1HM104K	J	0.1 50V Mylar	AC	R508	VRD-RA2BE473J	J	47k 1/8W Carbon	AA
C2061	VCCCPA1HH101J	J	100p 50V Ceramic	AA	R510	VRD-RM2HD1R5J	J	1.5 1/2W Carbon	AA
C2062	VCEA0A1AW107M	J	100 10V EL.	AB	△ R511	VRN-VV3AB3R9J	J	3.9 1W Metal Film	AA
C2401	VCCCPA1HH560J	J	56p 50V Ceramic	AA	R512	VRD-RM2HD271J	J	270 1/2W Carbon	AA
C2402	VCCCPA1HH560J	J	56p 50V Ceramic	AA	R516	VRD-RA2BE153G	J	15k 1/8W Carbon	AA
C2601	VCEA0A1CW476M	J	47 16V EL.	AB	R517	VRD-RA2BE123G	J	12k 1/8W Carbon	AA
C2602	VCCCCY1HH101J	J	100p 50V Ceramic	AA	R518	VRD-RA2BE154J	J	150k 1/8W Carbon	AA
RESISTORS					R524	VRS-CY1JF332J	J	3.3k 1/16W M-Ox.	AA
<i>[M-Ox. ... Metal Oxide]</i>					R525	VRD-RA2BE473J	J	47k 1/8W Carbon	AA
RJ1	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	R552	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
RJ2	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	R553	VRS-CY1JF273J	J	27k 1/16W M-Ox.	AA
RJ5	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	R554	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
RJ6	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	R602	VRD-RM2HD392J	J	3.9k 1/2W Carbon	AA
RJ7	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	△ R603	VRS-SV3LB182J	J	1.8k 3.0W M-Ox.	AB
RJ8	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	R608	VRD-RA2BE471J	J	470 1/8W Carbon	AA
RJ11	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	R609	VRD-RA2BE331J	J	330 1/8W Carbon	AA
RJ15	VRS-CY1JF000J	J	0 1/16W M-Ox.	AA	R610	VRS-VV3DB391J	J	390 2W M-Ox.	AA
△ R51	VRS-VV3DB151J	J	150 2W M-Ox.	AA	R620	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA
R52	VRD-RA2BE1R0J	J	1.0 1/8W Carbon	AA	R621	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA
△ R53	VRS-VV3LB223J	J	22k 3.0W M-Ox.	AB	R631	VRS-CY1JF391J	J	390 1/16W M-Ox.	AA
R54	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R632	VRD-RA2BE152J	J	1.5k 1/8W Carbon	AA
R55	VRS-CY1JF101J	J	100 1/16W M-Ox.	AA	R633	VRS-CY1JF472J	J	4.7k 1/16W M-Ox.	AA
R56	VRS-CY1JF682J	J	82k 1/16W M-Ox.	AA	R634	VRD-RM2HD101J	J	100 1/2W Carbon	AA
R57	VRS-CY1JF103J	J	10k 1/16W M-Ox.	AA	△ R641	VRS-VV3AB682J	J	6.8k 1W M-Ox.	AA
R201	VRS-CY1JF221J	J	220 1/16W M-Ox.	AA	R642	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
R202	VRS-CY1JF122J	J	1.2k 1/16W M-Ox.	AA	△△ R651	VRD-RM2HD1R0J	J	1.0 1/2W Carbon	AA
R203	VRS-CY1JF682J	J	6.8k 1/16W M-Ox.	AA	△ R653	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA
R204	VRS-CY1JF270J	J	27 1/16W M-Ox.	AA	R654	VRD-RA2BE473J	J	47k 1/8W Carbon	AA
R205	VRS-CY1JF391J	J	390 1/16W M-Ox.	AA	△ R655	VRS-CY1JF104J	J	100k 1/16W M-Ox.	AA
					△ R659	VRN-VV3AB1R8J	J	1.8 1W Metal Film	AA
					R661	VRN-VV3ABR47J	J	0.47 1W Metal Film	AA
					△ R701	VRW-KQ3NC3R9K	J	3.9 7.0W Cement	AE
					R703	VRD-RM2HD184J	J	180k 1/2W Carbon	AA
					R704	VRD-RM2HD184J	J	180k 1/2W Carbon	AA
					△ R705	VRS-VV3LB272J	J	2.7k 3.0W M-Ox.	AB

Ref. No.	Part No.	★	Description			Code	Ref. No.	Part No.	★	Description			Code
PWB-A: DUNTK9731WEV0							R2101	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
MAIN UNIT (Continued)							R2102	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA
							R2501	VRS-CY1JF123J	J	12k	1/16W	M-Ox.	AA
△ R706	VRN-VV3AB2R2J	J	2.2	1W	Metal Film	AA	R2503	VRS-CY1JF273J	J	27k	1/16W	M-Ox.	AA
△ R707	VRS-KT3LB562J	J	5.6k	3.0W	M-Ox.	AC	R2504	VRS-CY1JF123J	J	12k	1/16W	M-Ox.	AA
△ R708	VRS-KT3LB562J	J	5.6k	3.0W	M-Ox.	AC	R2505	VRS-CY1JF563J	J	56k	1/16W	M-Ox.	AA
△ R709	VRS-SV3DB150J	J	15	2W	M-Ox.	AA	R2506	VRS-CY1JF563J	J	56k	1/16W	M-Ox.	AA
R710	VRD-RA2BE124J	J	120k	1/8W	Carbon	AA	R2507	VRS-CY1JF823J	J	82k	1/16W	M-Ox.	AA
△ R711	VRN-VV3ABR22J	J	0.22	1W	Metal Film	AA	R2508	VRS-CY1JF153J	J	15k	1/16W	M-Ox.	AA
R712	VRD-RM2HD1R0J	J	1.0	1/2W	Carbon	AA	R2509	VRS-CY1JF272J	J	2.7k	1/16W	M-Ox.	AA
△ R713	VRN-SV2HBR27J	J	0.27	1/2W	Metal Film	AB	R2601	VRD-RA2BE470J	J	47	1/8W	Carbon	AA
R714	VRD-RA2BE180J	J	18	1/8W	Carbon	AA	SWITCHES						
R715	VRD-RA2BE101J	J	100	1/8W	Carbon	AB	S2501	QSW-K0079GEZZ	J	Power			AB
R716	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA	S2502	QSW-K0079GEZZ	J	Vol-down			AB
R717	VRD-RA2BE390J	J	39	1/8W	Carbon	AA	S2503	QSW-K0079GEZZ	J	Vol-up			AB
R718	VRD-RA2BE392J	J	3.9k	1/8W	Carbon	AA	S2504	QSW-K0079GEZZ	J	CH-down			AB
R719	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA	S2505	QSW-K0079GEZZ	J	CH-up			AB
R720	VRD-RA2BE821J	J	820	1/8W	Carbon	AA	MISCELLANEOUS PARTS						
△ R725	VRC-UA2HG825K	J	8.2M	1/2W	Solid	AA	△ RY701	RRLYU0036CEZZ	J	Relay			AM
△ R726	VRC-UA2HG825K	J	8.2M	1/2W	Solid	AA	△ RY751	RRLYU0036CEZZ	J	Relay			AM
R751	VRN-SV2HBR22J	J	0.22	1/2W	Metal Film	AA	△ F701	QFS-C3229CEZZ	J	Fuse, 3.15A			AD
R752	VRD-RA2BE561J	J	560	1/8W	Carbon	AA	FB602	RBLN-0037CEZZ	J	Ferrite Bead			AB
△ R753	VRS-KA3HG3R3K	J	3.3	5W	M-Ox.	AD	FB603	RBLN-0037CEZZ	J	Ferrite Bead			AB
△ R755	VRS-VV3DB470J	J	47	2W	M-Ox.	AA	FB701	RBLN-0037CEZZ	J	Ferrite Bead			AB
R756	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	AA	FB702	RBLN-0037CEZZ	J	Ferrite Bead			AB
△ R757	VRN-VV3LB6R8J	J	6.8	3.0W	Metal Film	AC	FB751	RBLN-0080CEZZ	J	Ferrite Bead			AD
△ R758	VRS-SV2HC150J	J	15	1/2W	M-Ox.	AA	FB752	RBLN-0037CEZZ	J	Ferrite Bead			AB
R801	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA	FH701	QFSDH1013CEZZ	J	Fuse Holder			AC
R802	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA	FH702	QFSDH1014CEZZ	J	Fuse Holder			AC
R803	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA	P302	QPLGN0261CEZZ	J	Plug, 2-pin(S)			AB
R804	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA	P401	QPLGN0561CEZZ	J	Plug, 5-pin(GBN)			AB
R805	VRS-CY1JF182J	J	1.8k	1/16W	M-Ox.	AA	P601	QPLGN0603CEZZ	J	Plug, 6-pin(K)			AB
R806	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA	P651	QPLGN0361CEZZ	J	Plug, 3-pin			AB
R902	VRS-CY1JF750J	J	75	1/16W	M-Ox.	AA	P701	QPLGN0269GEZZ	J	Plug, 2-pin(P)			AB
R906	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA	P702	QPLGN0207CEZZ	J	Plug, 2-pin(M)			AA
R925	VRS-CY1JF104J	J	100k	1/16W	M-Ox.	AA	P751	QPLGN0461CEZZ	J	Plug, 4-pin(YBN)			AB
R961	VRD-RA2BE101J	J	100	1/8W	Carbon	AB	P901	QPLGN0561CEZZ	J	Plug, 5-pin(E)			AB
R962	VRD-RA2BE101J	J	100	1/8W	Carbon	AB	P2001	QPLGN0561CEZZ	J	Plug, 5-pin			AB
R2002	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA	RMC2601	RRMCU0222CEZZ	J	R/C Receiver			AL
R2006	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA	or						
R2008	VRD-RA2BE224J	J	220k	1/8W	Carbon	AA	RRMCU0216CEZZ						
R2009	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA	HM711	LX-GZ3001PEZZ	R	Screw			AB
R2010	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA	HM712	LX-GZ3001PEZZ	R	Screw			AB
R2011	VRS-CY1JF821J	J	820	1/16W	M-Ox.	AA	HM713	LX-GZ3001PEZZ	R	Screw			AB
R2012	VRS-CY1JF471J	J	470	1/16W	M-Ox.	AA	HM714	LX-GZ3001PEZZ	R	Screw			AB
R2020	VRD-RM2HD223J	J	22k	1/2W	Carbon	AA	HM715	LX-GZ3001PEZZ	R	Screw			AB
R2022	VRD-RA2BE333J	J	33k	1/8W	Carbon	AA	HM720	LX-GZ3001PEZZ	R	Screw			AB
R2024	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA	HM721	LX-GZ3002PEZZ	R	Screw			AB
R2025	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA	HM722	LX-GZ3002PEZZ	R	Screw			AB
R2026	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA	HM723	LX-GZ3002PEZZ	R	Screw			AB
R2027	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA	HM724	LX-GZ3002PEZZ	R	Screw			AB
R2028	VRD-RA2BE102J	J	1.0k	1/8W	Carbon	AA	HM729	LX-GZ3001PEZZ	R	Screw			AB
R2029	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA	HM730	LX-GZ3001PEZZ	R	Screw			AB
R2031	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA	HM731	LX-GZ3001PEZZ	R	Screw			AB
R2032	VRD-RA2BE471J	J	470	1/8W	Carbon	AA	HM732	LX-GZ3001PEZZ	R	Screw			AB
R2040	VRS-CY1JF102J	J	1.0k	1/16W	M-Ox.	AA	HM733	LX-GZ3001PEZZ	R	Screw			AB
R2041	VRD-RA2BE333J	J	33k	1/8W	Carbon	AA	HM734	LX-GZ3001PEZZ	R	Screw			AB
R2042	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA	HM740	LX-GZ3001PEZZ	R	Screw			AB
R2043	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA	RDA701	PRDAR0222PEFW	R	Heat Sink Q701			AH
R2044	VRS-CY1JF682J	J	6.8k	1/16W	M-Ox.	AA	RDA351	PRDAR0102GJFW	X	Heat Sink IC351			
R2045	VRS-CY1JF101J	J	100	1/16W	M-Ox.	AA	RDA501	PRDAR0103GJFW	X	Heat Sink IC501			
R2047	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA	LHLDW1002PEZZ						AB
R2048	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA							
R2049	VRS-CY1JF333J	J	33k	1/16W	M-Ox.	AA							
R2054	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA							
R2055	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA							
R2060	VRS-CY1JF221J	J	220	1/16W	M-Ox.	AA							
R2061	VRS-CY1JF562J	J	5.6k	1/16W	M-Ox.	AA							
R2062	VRS-CY1JF183J	J	18k	1/16W	M-Ox.	AA							
R2063	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA							
R2064	VRS-CY1JF332J	J	3.3k	1/16W	M-Ox.	AA							
R2066	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA							
R2067	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA							
R2068	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA							
R2070	VRS-CY1JF103J	J	10k	1/16W	M-Ox.	AA							

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
PWB-B: DUNTK9432WEV2 CRT UNIT					PWB-C: DUNTK9432WEV0 FRONT AV UNIT				
TRANSISTORS					MISCELLANEOUS PARTS				
Q852	VS2SC2229O/1E	J	2SC2229	AD	J1001	QJAKE0150CEZZ	J	Jack, Video In	AD
Q854	VS2SC2229O/1E	J	2SC2229	AD	J1002	QJAKE0185CEZZ	J	Jack, Audio In	AE
Q856	VS2SC2229O/1E	J	2SC2229	AD	P1001	QPLGN0561CEZZ	J	Plug, 5-pin(E)	AB
Q881	VS2SA1266-Y-1	J	2SA1266	AA		QCNW-2047PEZZ	R	Connecting Cord	AK
DIODES									
D881	VHD1SS119//-1	J	1SS119	AB					
D882	VHD1SS119//-1	J	1SS119	AB					
D885	VHD1SS119//-1	J	1SS119	AB					
COIL									
L851	VP-DF151K0000	J	Peaking 150μH	AB					
CAPACITORS									
<i>[EL.... Electrolytic]</i>									
C851	VCKYPA1HB271K	J	270p 50V Ceramic	AA					
C852	VCKYPA1HB271K	J	270p 50V Ceramic	AA					
C853	VCKYPA1HB271K	J	270p 50V Ceramic	AA					
C854	RC-KZ0016CEZZ	J	0.01 1.4kV Ceramic	AC					
C881	VCEA0A1CW106M	J	10 16V EL.	AB					
C883	VCEA0A1CW336M	J	33 16V EL.	AB					
RESISTORS									
<i>[M-Ox.... Metal Oxide]</i>									
R852	VRD-RA2BE271J	J	270 1/8W Carbon	AA					
R853	VRD-RA2BE121J	J	120 1/8W Carbon	AA					
R854	VRD-RA2BE470J	J	47 1/8W Carbon	AA					
R855	VRD-RA2BE470J	J	47 1/8W Carbon	AA					
△ R857	VRS-VV3AB123J	J	12k 1W M-Ox.	AA					
R858	VRD-RM2HD332J	J	3.3k 1/2W Carbon	AA					
R859	VRD-RA2BE470J	J	47 1/8W Carbon	AA					
R860	VRD-RA2BE271J	J	270 1/8W Carbon	AA					
R861	VRD-RA2BE121J	J	120 1/8W Carbon	AA					
△ R865	VRS-VV3AB123J	J	12k 1W M-Ox.	AA					
R866	VRD-RM2HD332J	J	3.3k 1/2W Carbon	AA					
R868	VRD-RA2BE271J	J	270 1/8W Carbon	AA					
R869	VRD-RA2BE121J	J	120 1/8W Carbon	AA					
△ R873	VRS-VV3AB123J	J	12k 1W M-Ox.	AA					
R874	VRD-RM2HD332J	J	3.3k 1/2W Carbon	AA					
R881	VRD-RA2BE102J	J	1.0k 1/8W Carbon	AA					
R882	VRD-RA2BE391J	J	390 1/8W Carbon	AA					
R883	VRD-RA2BE561J	J	560 1/8W Carbon	AA					
R884	VRD-RA2BE152J	J	1.5k 1/8W Carbon	AA					
R885	VRD-RA2BE470J	J	47 1/8W Carbon	AA					
MISCELLANEOUS PARTS									
P851	QPLGN0561CEZZ	J	Plug, 5-pin(GBN)	AB					
P852	QPLGN0461CEZZ	J	Plug, 4-pin(YBN)	AB					
SC851	QSOCV0842CEZZ	J	CRT Socket	AH					

Ref. No.	Part No.	★	Description	Code
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MISCELLANEOUS PARTS

△	QACCZ3008PEZZ	R	AC Cord	AN
	QCNW-2105PEZZ	R	Connecting Cord	AF
	QCNW-2106PEZZ	R	Connecting Cord	AE
	QCNW-2107PEZZ	R	Connecting Cord	AE
	SP1 VSP9050PB11WA	J	Speaker, 16ohm	AP

Ref. No.	Part No.	★	Description	Code
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CABINET PARTS

1	CCABA0001WEH0	X	Front Cabinet Ass'y	
1-1	<i>Not Available</i>	—	Front Cabinet	—
1-2	GCOVA0001GJSA	X	Cover for R/C	
1-3	HBDGB0018PESA	R	Badge, "SHARP"	AE
1-4	JBTN-0001GJSA	X	Button, CH/Power	
2	GCABB0001GJKA	X	Rear Cabinet	

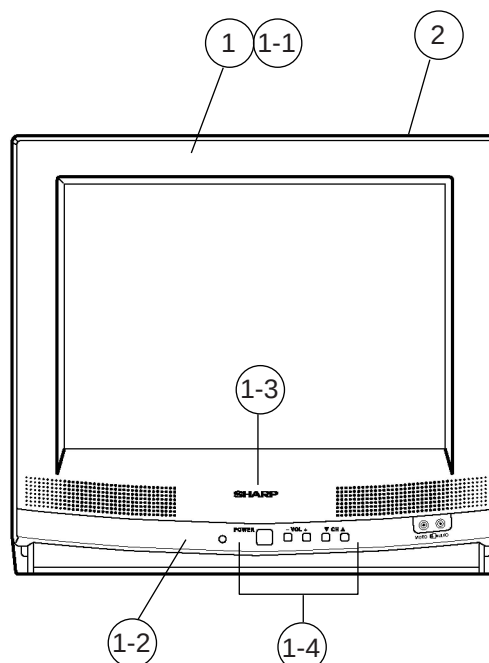
SUPPLIED ACCESSORIES

TINS-6487GJZZ	X	Operation Manual	
RRMCG1339CESA	J	Infrared R/C Unit	AT
QANTR0018PEZZ	R	Rod Antenna	AQ
QPLGA0017CEZZ	J	Plug	AK
RUNTK0165CEZZ	J	Antenna Box Unit	AM

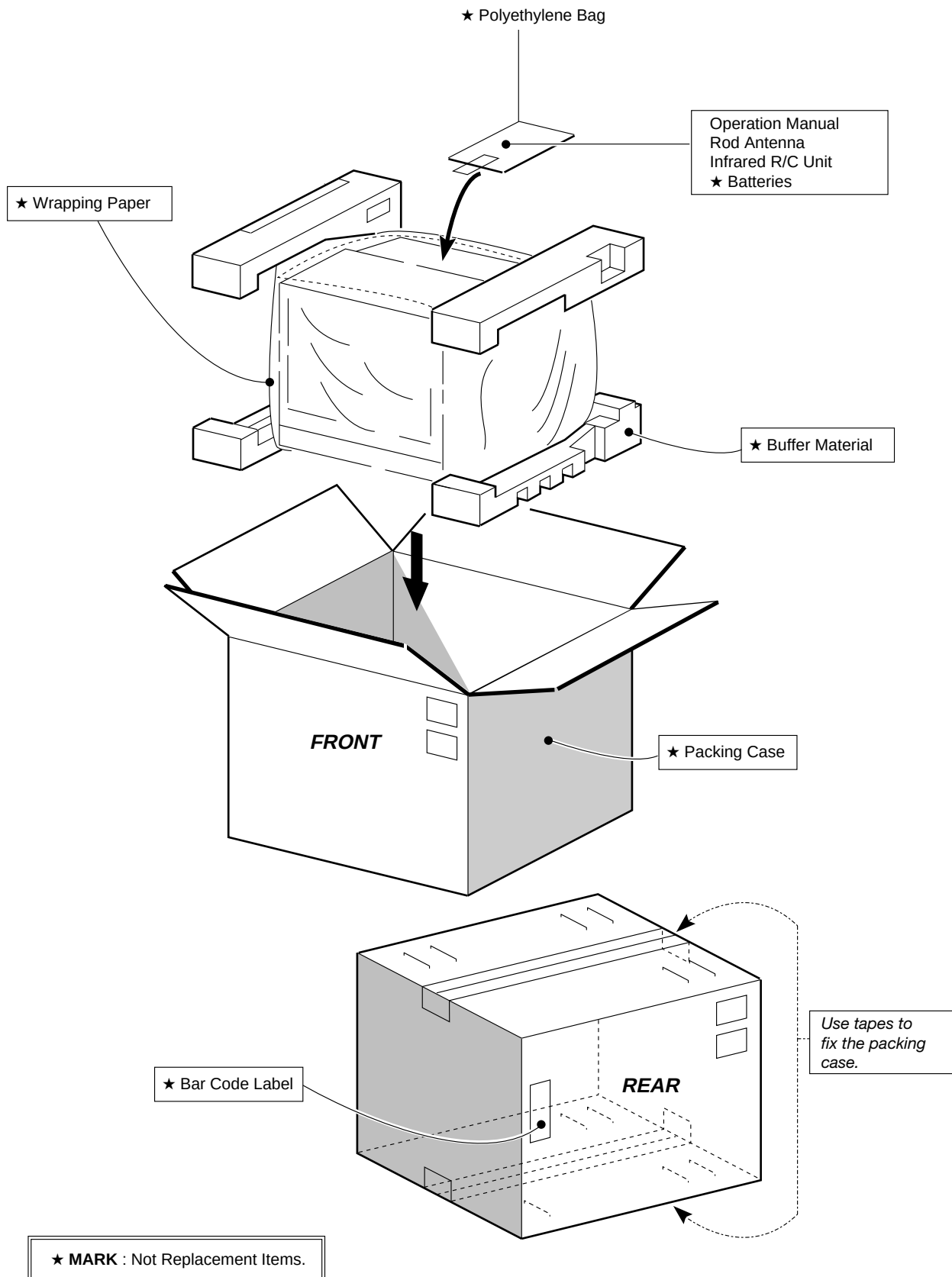
PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC0001GJZZ	—	Packing Case	—
SPAKP0001GJZZ	—	Wrapping Paper	—
SPAKX0001GJEZZ	—	Buffer Material	—
SSAKA0101GJZZ	—	Polyethylene Bag	—

CABINET PARTS LOCATION



PACKING OF THE SET



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